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CURRICULUM VITAE

NAME: Edward D. Weber

ORGANIZATION: Department of Commerce
National Oceanic & Atmospheric Administration
National Marine Fisheries Service
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PRESENT POSITION: Research Fisheries Biologist

EDUCATION:

Ph.D. Colorado State University, Fort Collins, Fisheries and Wildlife Biology 2003
M.S. New Mexico State University, Las Cruces, Fishery and Wildlife Sciences 1997
(Minor subject – Experimental statistics)
B.S. Biology, University of Michigan, Ann Arbor 1993

EXPERIENCE:

2009-present	Research Fisheries Biologist, NOAA Southwest Fisheries Science Center
2008-2009	Postdoctoral Researcher, NOAA Southwest Fisheries Science Center
2004-2008	Senior Scientist, Versar, Inc, Columbia, MD
2003-2004	Fisheries Biologist, U.S Bureau of Reclamation, Denver, CO
2000-2003	Graduate Research Assistant, Colorado State University, Fort Collins, CO
1998-2000	Fisheries Biologist, U.S Bureau of Reclamation, Red Bluff, CA
1997-1998	Fisheries Biologist, U.S Fish & Wildlife Service, Red Bluff, CA
1996-1997	Graduate Research Assistant, New Mexico State University, Las Cruces, NM
1996	Fisheries Observer, Saltwater, Inc, Anchorage, AK
1990-1993	Student Biological Technician, U.S. Fish & Wildlife Service, Ann Arbor, MI

RESEARCH INTERESTS:

Interactions between fish population dynamics, environmental conditions, and the surrounding biological community. Quantitative and computationally intensive approaches to ecological studies.

PUBLICATIONS:

Leising, A.W. and 31 co-authors. 2015. State of the California Current 2014-2015: Impacts of the warm-water “Blob”. CalCOFI Repts 56:31-68

Weber, E.D.; Chao, Y.; Chai, F.; McClatchie, S. 2015. Transport patterns of Pacific sardine *Sardinops sagax* eggs and larvae in the California Current System. Deep Sea Res I: Oceanogr Res Pap. 100:127-139

Leising, A.W., 37 co-authors. 2014. State of the California Current 2013-2014: El Nino Looming. CalCOFI Repts. 55:51-87

McClatchie, S.; 11 co-authors. 2014. Long Time Series in US Fisheries Oceanography. Oceanography. 27:48-67

Nieto, K.; McClatchie, S.; Weber, E.D.; Lennert-Cody, C.E. 2014. Effect of mesoscale eddies and streamers on sardine spawning habitat and recruitment success off Southern and central California. J Geophys Res (C Oceans). 119:6330-6339

Weber, E.D.; Moore, T.J. 2013. Corrected conversion algorithms for the CalCOFI station grid and their implementation in several computer languages. CalCOFI Repts.54:97-106

Weber, E.D.; Volstad, J.H.; Christman, M.C.; Lewis, D.; Dew-Baxter, J.R. 2013. Application of a demographic model for evaluating proposed oyster-restoration actions in Chesapeake Bay. Hum Ecol Risk Assess. 19:1187-1203

Wells, B.K.; 47 co-authors. 2013. State of the California Current 2012–13: No such thing as an “average” year. CalCOFI Repts. 54:37-71

Bjorkstedt, E.P.; 38 co-authors. 2012. State of the California Current 2011-2012: Ecosystems respond to local forcing as La Nina wavers and wanes. CalCOFI Repts. 53:41-76

Song, H.; Miller, A.J.; McClatchie, S.; Weber, E.D.; Nieto, K.M.; Checkley, D.M. 2012. Application of a data-assimilation model to variability of Pacific sardine spawning and survivor habitats with ENSO in the California Current System. J Geophys Res (C Oceans). 117:15

Thompson, A.R.; Watson, W.; McClatchie, S.; Weber, E.D. 2012. Multi-scale sampling to evaluate assemblage dynamics in an oceanic marine reserve. PLoS One. 7:e33131

Weber, E.D.; McClatchie, S. 2012. Effect of environmental conditions on the distribution of Pacific mackerel (*Scomber japonicus*) larvae in the California Current system. Fish Bull. 110:85-97

Bjorkstedt, E.P.; 30 co-authors. 2011. State of the California Current 2010-2011: Regionally variable responses to a strong (but fleeting?) La Nina. CalCOFI Repts. 52:36-68

Bjorkstedt, E.P.; 29 co-authors. 2010. State of the California Current 2009-2010: Regional variation persists through transition from La Nina to El Nino (and back?). CalCOFI Repts. 51:39-69

Slacum, H.W.; Burton, W.H.; Methratta, E.T.; Weber, E.D.; Llanso, R.J.; Dew-Baxter, J. 2010. Assemblage structure in shoal and flat-bottom habitats on the inner continental shelf of the Middle Atlantic Bight, USA. Mar Coast Fish. 2:277-298

Weber, E.D.; McClatchie, S. 2010. Predictive models of northern anchovy *Engraulis mordax* and Pacific sardine *Sardinops sagax* spawning habitat in the California Current. Mar Ecol Prog Ser. 406:251-263

Southerland, M.T.; Volstad, J.H.; Weber, E.D.; Klauda, R.J.; Poukish, C.A.; Rowe, M.C. 2009. Application of the probability-based Maryland Biological Stream Survey to the state's assessment of water quality standards. Environ Monit Assess. 150:65-73;

Weber, E.D.; McClatchie, S. 2009. rcalcofi Analysis and Visualization of CalCOFI Data in R. CalCOFI Repts. 50:178-185

Slacum, H.W.; Volstad, J.H.; Weber, E.D.; Richkus, W.A.; Diaz, R.J.; Tallent, C.O. 2008. The value of applying commercial fishers' experience to designed surveys for identifying characteristics of essential fish habitat for adult summer flounder. N Am J Fish Manag. 28:710-721

Weber, E.D.; Fausch, K.D. 2005. Competition between hatchery-reared and wild juvenile Chinook Salmon in enclosures in the Sacramento River, California. Trans Am Fish Soc. 134:44-58

Weber, E.D.; Fausch, K.D. 2004. Abundance and size distribution of ocean-type juvenile Chinook salmon in the upper Sacramento River margin before and after hatchery releases. N Am J Fish Manage. 24:1447-1455

Weber, E.D.; Fausch, K.D. 2003. Interactions between hatchery and wild salmonids in streams: differences in biology and evidence for competition. Can J Fish Aquat Sci. 60:1018-1036

Weber, E.D., Borthwick, S M., and L.A. Helfrich. 2002. Plasma cortisol stress response of juvenile Chinook salmon to passage through Archimedes lifts and a Hydrostal pump. N Am J Fish Manage 22:563-570

REPORTS:

Vølstad JH, M.C. Christman, D. Lewis, E.D. Weber, and J. Dew. 2007. A demographic model of oyster populations in the Chesapeake Bay to evaluate proposed oyster-restoration alternatives. Appendix A in US Army Corps of Engineers, Norfolk District. Final Programmatic Environmental Impact Statement for Oyster Restoration in Chesapeake Bay including the Use of a Native and/or Nonnative Oyster. Available at http://www.nao.usace.army.mil/Missions/ CivilWorks/Oysters.aspx

Borthwick, S.M., and E.D. Weber, 2001. Larval fish entrainment by Archimedes lifts and an internal helical pump at Red Bluff Research Pumping Plant, Upper Sacramento River, California. Red Bluff Research Pumping Plant Report Series, Volume 12, United States Department of the Interior, U. S. Fish and Wildlife Service and Bureau of Reclamation, Red Bluff, California. 20 pp.

Borthwick, S.M., Weber, E.D., and R.R. Corwin, 2000. Travel time and condition of juvenile Chinook salmon passed through Archimedes lifts, an internal helical pump, and bypasses at Red Bluff Research Pumping Plant, Sacramento River, California. Red Bluff Research Pumping Plant Report Series, Volume 11, United States Department of the Interior, Bureau of Reclamation, Red Bluff, California. 51 pp.

Weber, E.D., and S.M. Borthwick, 2000. Plasma cortisol levels and behavioral stress responses of juvenile Chinook salmon passed through Archimedes lifts and an internal helical pump at Red Bluff Research Pumping Plant, Sacramento River, California. Red Bluff Research Pumping Plant Report Series, Volume 8, United States Department of the Interior, Bureau of Reclamation, Red Bluff, California. 36 pp.